



April 22, 2002

R. 01-08-028

President Loretta Lynch
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102-3298

RE: PROPOSED STATEWIDE BUILDER OPERATOR CERTIFICATION STANDARDS

Dear President Lynch:

Pursuant to Decision 02-03-056 Ordering Paragraph 13, San Diego Gas & Electric Company, on behalf of Southern California Gas Company, Southern California Edison Company and Pacific Gas and Electric Company respectfully submits the attached statewide standard training curricula, testing and other certification standards for the Building Operator Certification program for your approval.

If you have any questions or require additional information, please do not hesitate to contact me at (858) 654-1755 or by e-mail: jyamagata@sempra.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Joy C. Yamagata", with a stylized flourish at the end.

Joy C. Yamagata
Regulatory Manager

Enclosure

cc: J. Luboff – CPUC
Administrative Law Judge S. Thomas – CPUC
V. Thompson – Sempra Energy
Service List in Rulemaking 01-08-028

**BUILDING OPERATOR CERTIFICATION PROGRAM STANDARDS PROPOSAL OF
PACIFIC GAS AND ELECTRIC COMPANY, SAN DIEGO GAS & ELECTRIC COMPANY,
SOUTHERN CALIFORNIA EDISON COMPANY AND SOUTHERN CALIFORNIA GAS
COMPANY IN RESPONSE TO DECISION 02-03-056 ORDERING PARAGRAPH 13**

Program Overview

In 2002, Pacific Gas and Electric Company, San Diego Gas & Electric, Southern California Edison and Southern California Gas (IOUs) plan to offer a uniform statewide building operator training and certification program (BOC). Operators of medium and large commercial buildings (including governmental and institutional buildings and complexes) are the primary target group for this program. The program seeks to train operators of these buildings to identify and implement energy savings opportunities as an integral part of their operations and maintenance activities.

Goals and Objectives

The program goal is to offer a uniform statewide building operator certification program designed to educate building operators on every major operating system in their facilities and certify their knowledge of building operations and maintenance. The goal of certification is to provide a recognized award to the participating building operators, which adds value to their jobs and recognition by their supervisors and throughout the state of California.

Building operators will learn to get the most out of their systems by improving their analytical and practical skills on the job. The training will include equipment operations, the latest methods of building operation and maintenance and how to incorporate energy efficiency opportunities. These opportunities range from installing more energy efficient equipment to proper maintenance of existing equipment for more efficient operations. The knowledge gained from this training program is expected to improve facility operations in both the short-term and long-term post-class periods. The increased awareness of energy saving knowledge for the building operator community will generate demand and energy savings statewide.

Training Curricula

The training curricula would cover subjects pertaining to the equipment and day-to-day operations encountered by building operators. Classroom homework would require participants to identify energy saving opportunities at their facilities. The proposed curriculum is planned to include, but is not limited to, the following subjects:

- Facility Operations and Maintenance
- Lighting
- Heating, Ventilating and Air Conditioning (HVAC) System Design
- HVAC Control Systems
- Motors and Drives
- Energy Management Systems
- Power Quality
- Indoor Air Quality
- Energy Efficiency

The IOUs are currently reviewing different course materials and delivery options to meet the proposed curriculum.

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Per Decision 02-03-056 Ordering Paragraph 13, the CPUC would retain ownership of the curricula and other aspects of the BOC program. However, the IOU's objective is to select a certification program with existing materials, therefore, the IOUs believe the CPUC may not be entitled to ownership of these materials. If the selected certification program requires payment of a license fee to use the program and materials then continued use of these materials in future program years may be available as long as the administrator pays the appropriate license fees. If new training materials need to be developed for this program, the IOUs will notify the selected third party, as part of the contracting process, that the Commission will retain ownership of the curricula and other aspects of the training material.

Course Testing

There will be testing of all participants to evaluate the amount of knowledge retained by the participants. These tests will be designed to confirm the participant's mastery of the subject material. If the participant completes all courses and passes all course tests, they will receive a certification at the end of the training program.

Certification

A certificate of course completion and recognition will be awarded to all students that successfully complete this training program and the required testing. This certificate provides documentation and recognition that the recipient has achieved a high level of knowledge in facility operations and building management. The participants in the certification program for program year 2002 are expected to complete the course curriculum in approximately seven months. This implies that the IOUs implementation of this program will be completed in the first quarter of 2003.